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used in the factory's extra high voltage test field headed by Stamm. The engineers still working at the firm could not overcome the difficulties involved in the development work mentioned. Reference was made to the fact that the August 1953 production plan of the firm was fulfilled only 20 percent. Information dating from April 1953 indicated that the work on the development of betatrons and installations designed for linear acceleration of electrons did not make much progress.

- b. Project 2: "Development of a high voltage test transformer for 1,000 W and of a combined current and voltage transformer for 220 kVd.

  It is believed that this development work was interrupted by Dunkel to trip to Chira. Information dating from April 1954 indicated that work was being done on the two apparatus, but details were not available.
- c. Froject 3: Development of a portable differential bridge designed for direct fault-reading. It is doubted that there was an urgent requirement for the development of this equipment.
- d. Project 4: "Development of a transformer for 220 kV". It is possible that this development order was given to the enterprise as a result of special efforts made by Professor Stamm. One of the reasons for these efforts may have been the consideration that special monetary allocations are granted for development work.

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on the development of this transformer had been unsuccessful. This did not appear surprising in view of the fact that 110 kV transformers tested at the plant in Septenber 1953 did not stand the tests, allegelly because of inadequate insulating material. Work on the development of 220 kV transformer has been conducted at the TRO plant in East Berlin for 20 years. The Berlin plant is better equipped and better suited for development work on transformers for very high voltages.

- e. Project 5: "Assearch work on processes occurring in rectifier plants utilizing mechanic and valve-steered rectification". (sig.). This development work may be expected to reach positive results only when the Thuringla Valve Flant or the Siemens Valve Plant is in a position to furnish now types of valves. The development work may be supervised by Dr. Window (find), a former assistant to Professor Guenther-Schulze who, while at the Dresden Institute of Technology, made experiments with rectifying plants (sic).
- f. Project 6: Further development of Pressure gas condensers for 500 Pressure gas condensers of this capacity can be bought at the Hartmann and Braum firm at Frankfurt/Main. It was, therefore, believed that the new development of this equipment in Dresden was uneconomical.
- g. Project 7: "Development of high voltage condensers utilizing organic insulating materials." Porcelain high voltage condensers were previously manufactured at the Hescho firm in Hernsdorf. this firm was still in a position to furnish porcelain high voltage insulators, In giving this development order, the Dresden firm may have been influenced by development work made in this field by Swiss firms.

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25X1 ب 3 . h. Project 8: "Development of an K-ray apparatus for 400 kV". Details were not available. Apparatus of this kind are being built in the i. Project 9: "Further development of an X-ray apparatus for 200 kV". Development work in this field was expected to continue according to schedule. k. Project 10: "Further development of a direct voltage high voltage cascade". Work on this development order was interrupted. 1. Project 11: "Betatron and cyclotron projects". No information was available, Generally, it can be stated that development work at the Dresden Roentgen- und Transformatorenwerk was greatly hampered by a shortage of materials and qualified experts. According to a September 1953 issue of the Csech magazine "World of Technology", work on the development of a prototype of a transformer for 400 kV had been completed at the Leningrad "Elektroapparat" Works. The development work for this transformer which was scheduled to be installed on the long-distance high voltage line from Kuityshev to Moscow was done by Leningrad and Noscow engineers in conjunction. with the M.I. Kalinin Institute of Technology and the All-Union Scientific Institute of the Cable Industry. Source doubted that the USSA was in a position to build a useful 400 kV transformer although he believed it possible that a prototype transformer had been constructed in the USSA. 25X1 The Transformatoren- und Roentgenwerk Dresden previously tried to solve the problem of building a usable 400 kV transformer. This work was unsuccessful. From 1950 to 1952, an engineer of the "Karl Liebknecht" Transformer Plant, formerly Transformatorenwerk Berlin-Oberschoeneweide (TRC), made designs for 220 kV transformers at the Dresden plant. In early April 1954, this engineer returned to the TRO plant. 25X1 Comments: 1. Not further identified by source. 2. Hartmann & Braum A.G., Frankfurt/Main, Falkstrasse 5. 25X1 CONFIDENTIAL " U.S. OFFICIALS ONLY

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